

Abstract of Disclosure:

Without of affect of sulfur in fuel, NO_x in exhaust
gas is decomposed completely using discharge and low
5 temperature of 300 C degree, to establish technique for
generating NO₂ for necessary to oxidize a particle
substance in a real time. The generated NO₂ and ozone and
active oxygen generated in oxygen atmosphere are used an
oxidation agent the particle substance is decomposed
10 completely using discharge and low temperature of 300 C
degree. As to NO_x in exhaust gas, No is decomposed
completely using a thin and narrow wire shape bear wire and
NO₂ for necessary to the particle substance is generated
and is processed in response to operation condition of the
15 engine in low temperature of 300 C degree.

[Selection Figure] Fig. 1

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